AIRUSH

2013 I KITE MANUAL

CONTENTS

Dear Rider

Thank you for purchasing an Airush kite. We are sure that you will have hours of action packed fun each time you fly. Remember to prioritize safety first and before using your kite, please take the time to read through the following instruction manual.

www.airush.com

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1/RELEASE OF LIABILITY AND CLAIM WAIVER

Dear Rider

In consideration of the purchase of this product you hereby agree to the fullest extent permitted by law as follows:
To waive any and all claims that you have or may in the future have against AIRUSH, its parent or associated companies, resulting from use of this product and any of its components. To release AIRUSH from any and all responsibility and liability for any loss, damage, expense, accidents and/or injury to people, objects and/or product which may occur as a result of the use of the product, due to any cause whatsoever, including negligence or breach of contract on the part of AIRUSH in the design or manufacture of this product. Possible faults or delays in repairs give the purchaser no right of compensation for damages or warranty extension. Transport costs are at purchasers cost as well as costs resulting from the inspection he/she has applied and accepted by AIRUSH. AIRUSH expressly disclaims any implied warranties of merchantability of fitness for a particular purpose and disclaims any and all responsibility and liability for consequential and incidental damage or any other losses arising from the use of these parts, products and/or components.

Release of Liability, Claim Waiver and Assumption of Risk Agreement

By assembling this product, you are agreeing to;
1. be bound to the terms set forth below; and
2. require anyone using this product to be bound by such terms. If you are unwilling to be bound by these terms return this product (before use) for a full refund.

Assumption of risk / Important Warning!

Use of this product and any of its components involves certain inherent risks, dangers and hazards, which can result in serious personal injury or death. In using this product you freely agree to assume and accept any and all known and unknown risks of injury while using the equipment. The risks inherent in the sport can be greatly reduced by abiding by the Warning and Safety guidelines listed in this User's Manual and by using common sense.

If under the age of 18 years do not kiteboard without the clear consent from a parent or guardian and the correct supervision. If you are learning for the first time, we strongly recommend lessons from a professional instructor connected to an authorized training center.

Arbitration

The purchaser agrees that the laws of Thailand shall govern any disputes, controversy or claims involving AIRUSH. Such disputes, controversy or claims shall be referred to and finally settled by arbitration in accordance with the Rules of Arbitration of the Thailand International Arbitration Center. The language to be used in arbitrate proceedings shall be English. Arbitration shall be commenced within one (1) year from the date on which any alleged claim first arose.

Entire Agreement

In entering into this Agreement, you are not relying upon any oral or written representations other than what is set forth in this Agreement and Users Manual.

Dear Rider

- Kiteboarding can be a dangerous sport and should be taken very seriously.
- It is strongly recommended that you receive expert tuition from a registered instructor prior to use of this product.
- Power kites, their lines and control system can be dangerous to flyers and to anyone within the vicinity of their use.
- Do not use your kite near or around power lines, airports, streets, trees, and keep clear of other people and obstacles.
- Never allow anyone who is not familiar with traction kiting to use this product without experienced assistance.
- Always learn to use a small-sized, power kite (2m – 3m Trainer foil) before attempting to use this product for the first time.
- Always use your kite with safety release system and familiarize yourself with the system prior to use.
- Make sure you spend time to become familiar with the operation of your kite and remember that you are responsible for its safe operation and for the safety of those around you.
- As you learn the sport make sure to work within your limitations and do not exceed them.
- Do not for any reason permanently attach yourself to the kite or its safety system.
- The kite is not intended for use as a flying device nor is it intended as means for a flotation device.
- A good rule of thumb when kiteboarding is, to always try and ride with a buddy.

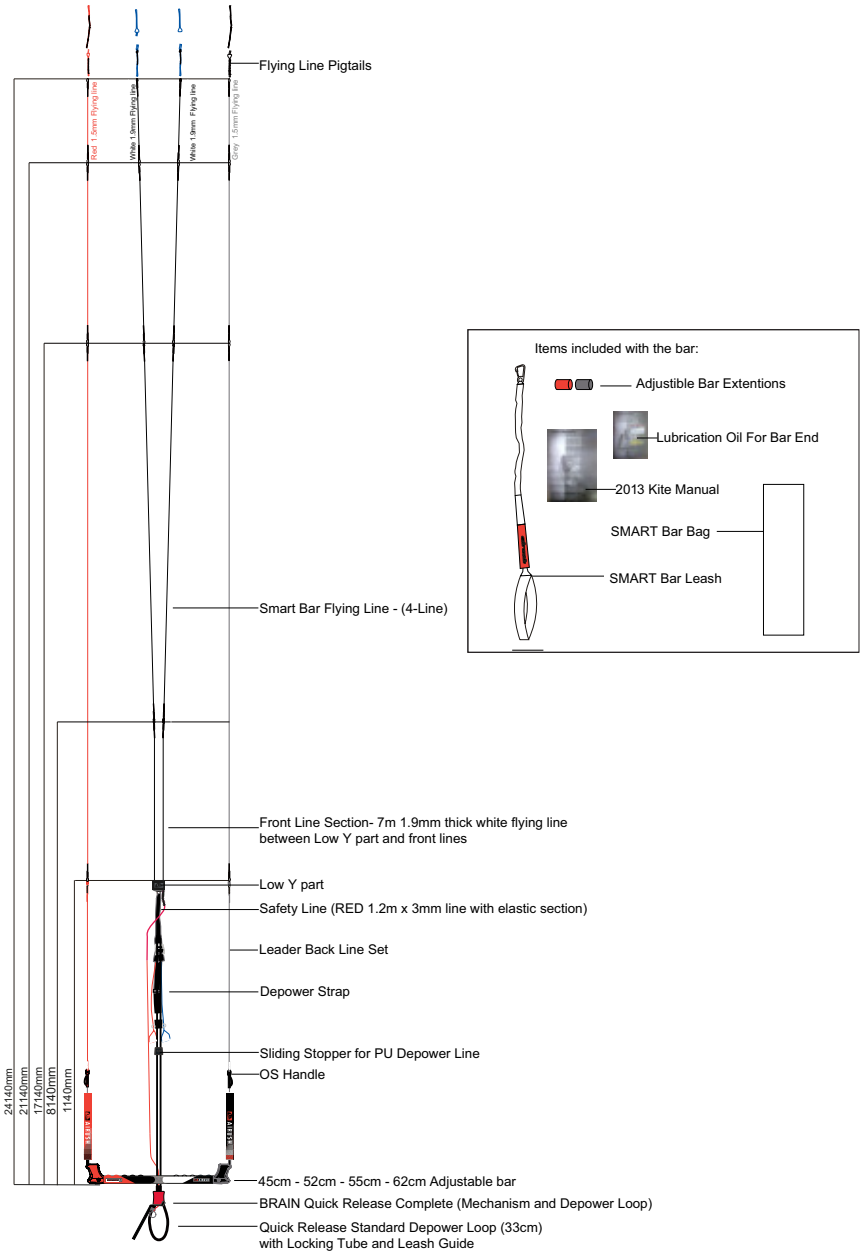
Contents

- Kite bag
- AIRUSH kite
- AIRUSH Smart Bar, components and flying lines
- Pump
- Bladder patch repair kit

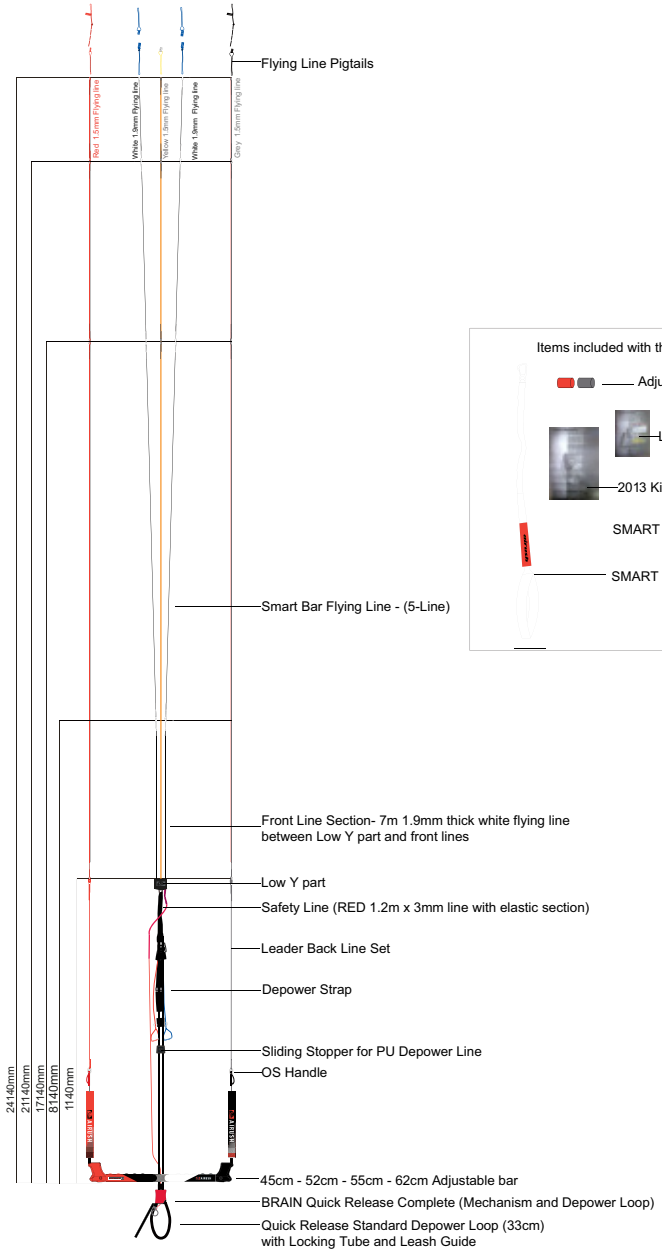
Beginning Setup

- When setting up your kite and system for the first time we recommend you find some place out of the wind and preferably a nice area so that you can become familiar with the kites system and make sure that it is set up correctly.
- Choose an area that has enough room to fully layout your kite lines and control bar without any obstructions.
- If there is any wind at all make sure to position yourself with your back into the win.
- Choose an area that has enough room to fully layout your kite, lines and control bar without any obstructions. If there is any wind at all make sure to position yourself with your back into the wind.

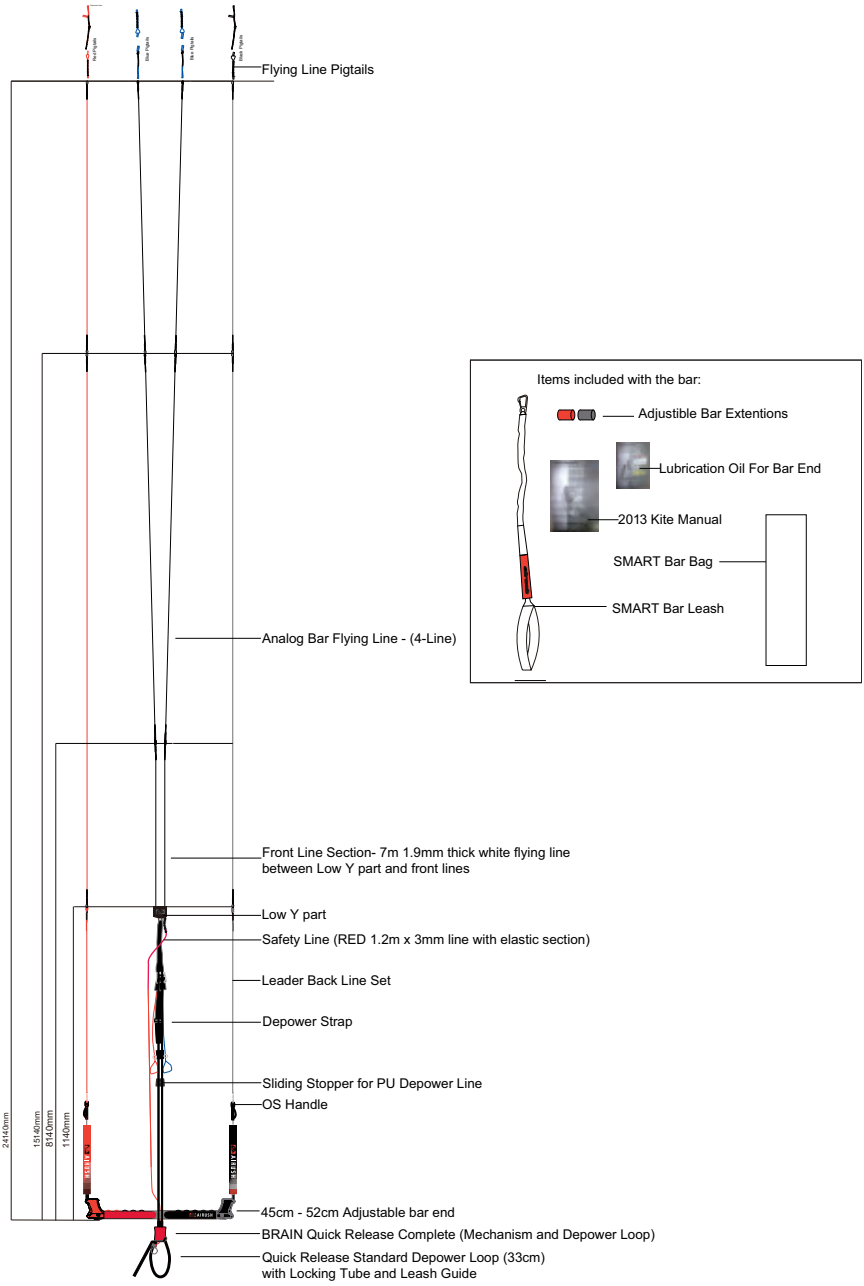
3.1/SMART Bar Features//4 Lines SMART Bar Diagram


Flying Line Pigtails
Red 1.5mm Flying line
White 1.9mm Flying line
White 1.9mm Flying line
Grey 1.5mm Flying line
Smart Bar Flying Line - (4-Line)
Front Line Section- 7m 1.9mm thick white flying line between Low Y part and front lines
Low Y part
Safety Line (RED 1.2m x 3mm line with elastic section)
Leader Back Line Set
Depower Strap
Sliding Stopper for PU Depower Line
OS Handle
24140mm
21140mm
17140mm
8140mm
1140mm
45cm - 52cm - 55cm - 62cm Adjustable bar
BRAIN Quick Release Complete (Mechanism and Depower Loop)
Quick Release Standard Depower Loop (33cm) with Locking Tube and Leash Guide
Items included with the bar:
Adjustible Bar Extentions
Lubrication Oil For Bar End
2013 Kite Manual
SMART Bar Bag
SMART Bar Leash

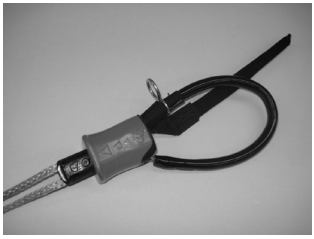
3.2/SMART Bar Features//5 Lines SMART Bar Diagram


Flying Line Pigtails
Red 1.5mm Flying line
White 1.9mm Flying line
Yellow 1.9mm Flying line
White 1.9mm Flying line
Grey 1.5mm Flying line
Items included with the bar:
Adjustible Bar Extentions
Lubrication Oil For Bar End
2013 Kite Manual
SMART Bar Bag
SMART Bar Leash
Smart Bar Flying Line - (5-Line)
Front Line Section- 7m 1.9mm thick white flying line between Low Y part and front lines
Low Y part
Safety Line (RED 1.2m x 3mm line with elastic section)
Leader Back Line Set
Depower Strap
Sliding Stopper for PU Depower Line
OS Handle
24140mm
21140mm
17140mm
8140mm
1140mm
45cm - 52cm - 55cm - 62cm Adjustable bar
BRAIN Quick Release Complete (Mechanism and Depower Loop)
Quick Release Standard Depower Loop (33cm) with Locking Tube and Leash Guide

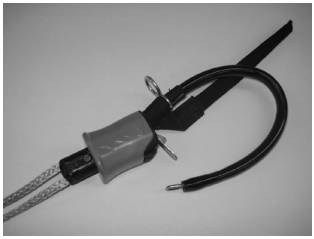
3.4/ANALOG Bar Features//4 Line ANALOG Bar Diagram


Flying Line Pigtails
Items included with the bar:
Adjustible Bar Extentions
Lubrication Oil For Bar End
2013 Kite Manual
SMART Bar Bag
SMART Bar Leash
Analog Bar Flying Line - (4-Line)
Front Line Section- 7m 1.9mm thick white flying line between Low Y part and front lines
Low Y part
Safety Line (RED 1.2m x 3mm line with elastic section)
Leader Back Line Set
Depower Strap
Sliding Stopper for PU Depower Line
OS Handle
2414/0mm
1914/0mm
814/0mm
1140mm
45cm - 52cm Adjustable bar end
BRAIN Quick Release Complete (Mechanism and Depower Loop)
Quick Release Standard Depower Loop (33cm) with Locking Tube and Leash Guide

3.5 BRAIN Quick Release Operation //Activation and Re-set



1 / When the Quick Release is properly closed; the collar will sit flush against the lip at the base of the core.



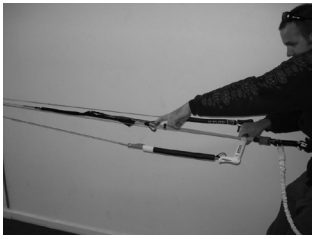
2 / To release, push the RED sliding collar away from the loop towards the kite. This will cause the pin to release the sheeting loop.

3 / To Re-assemble, hold the RED sliding collar up and replace the U-ring on the end of the sheeting loop over the pin and rotate the pin vertically making sure that the U-ring is seated properly in the housing and that the pin can easily rotate flush against the housing.

4 / Allow the the RED sliding collar to slide back down back over the pin and sit flush against the lip at the base of the core.

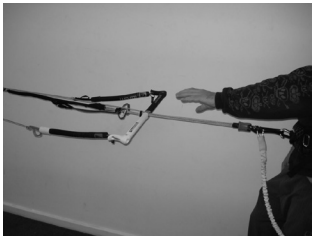
5 / Make sure that the RED sliding collar and pin are seated properly and that the quick release can function properly before using.

3.7 Safety Options



1 / Primary safety - Bar Sheeting Depower

By sheeting the bar in and out you can safely adjust the power of your kite. Use the sheeting strap to fine-tune the power of your kite by pulling on the RED handle to reduce the power. Pull the BLUE handle to increase the power.



2 / Secondary Safety - Let go of the bar

Letting go of the bar will allow for maximum depower while still attached to the kite. If you still have too much power, pull the RED handle on the sheeting strap or use the emergency safety shown below. (Note: For maximum depower, the stopper ball must be against the sheeting strap.)

3 / Emergency Safety - BRAIN quick release

To activate, simply push the RED sliding collar on the quick release to disconnect from the sheeting loop.

4 / Final Safety - Leash release

In the event that the kite still has power, it will be necessary to disconnect completely from the kite and leash.

5 / Safe state - Complete disconnect

To disconnect completely, grab the RED sleeved area labeled “Airush” and push away from where it is connected to your harness in the direction shown by the arrows on the leash.

4.1 BRAIN Quick Release Disassembly

You may wish to disassemble your quick release to clean, customize, remove or replace parts. To do so, follow the steps below. An instructional video of the process may be found on the Airush Youtube channel available through www. airush.com

Required items:

- Small size Phillips head screw driver
- Medium size Phillips head screw driver
- Small flat head screw driver

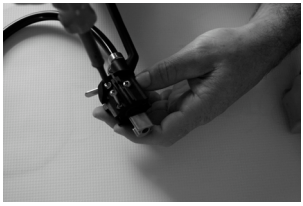
IMPORTANT: Always note which screw came from which part of the quick release as each is unique in length and shape. Take notes of how everything comes apart and it will make reassembly much easier.

1 / Undo and remove the screw on the black plastic swivel using the small Philips head screwdriver.

2 / Slide the black plastic swivel up the depower line.

3 / Remove the elastic bungees from the bottom of the housing on both sides using the small flat head screwdriver.

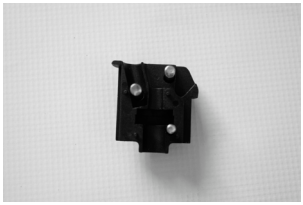
4 / Slide the release collar up and off to expose the core.



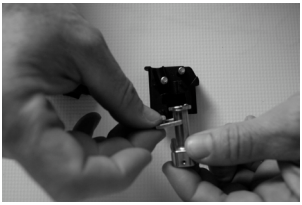
5 / Unscrew the 3 screws that hold the QR core together and remove.

6 / Now your Brain QR is completely disassembled.You can clean the parts, in fresh water, remove the locking tube, replace your PU depower line, or replace your depower loop.

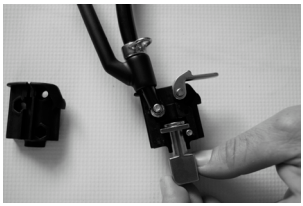
4.2 BRAIN Quick Release Reassembly



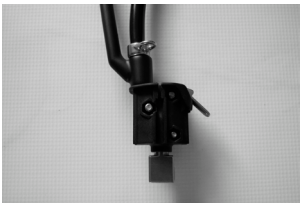
1 / Replace the screws into the place plastic core. Be sure to use the exact screws that were removed from the exact position. .



2 / Replace the metal swivel part and locker.



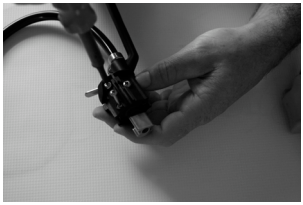
3 / Replace the metal swing arm and depower loop.



4 / Replace the black plastic top and bolts and tighten. Begin tightening the smallest screw closest to the top of the QR working your way down to the bottom screw that holds the metal swing arm.

NOTE: Make sure that the screws are not over tightened. To be certain, make sure that the metal top part swivels easily and that the swing arm opens.

VERY IMPORTANT! If the swing arm does not open easily, loosen the screw lightly until the swing arm falls easily with gravity.



5 / With the elastic bungee's locked in the top of the sliding collar, pull each side and hold it overlapped on each side of the collar.

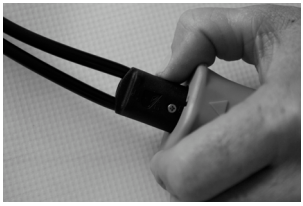
6 / Slide the collar over the top of the reassembled QR Core. Make sure that the elastics fit nicely into the grooves in the sides of the core.

7 / Once the collar is seated, snap the elastics into the slots on the bottom of the QR core. Slide the collar up and down to be sure that the elastics are in the side channels. If they are not, try using a small flat head screwdriver to get them reseated. If they are not seated well, remove the elastics and collar and go back to step 5.

4.2 BRAIN Quick Release Reassembly

8 / Take your PU depower line and insert over the metal swivel part by sliding the collar up slightly and pushing the PU tube down into the groove on the metal swivel.

8 / Pic #2.



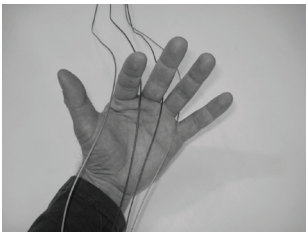
9 / Make sure that the PU tubing is seated exactly how it was prior to disassembly. Slide the black plastic swivel part down over the metal swivel part and replace the screw. If the plastic swivel does not slide over the metal swivel easily, the PU tube is not properly aligned. Go back to step 8 and try again.

10 / Congratulations! You have successfully reassembled your Brain quick release. Always check the functionality of your release before using again.

4.3 Adjustable Bar Length System Maintenance

- Your bar comes shipped with a packet of lubricant. Always apply a generous amount of lubrication to the adjustable bar after using your bar.
- Using the Smart Bar in salt water will require more frequent lubrication of the bar ends than use in fresh water. Please maintain accordingly.
- We recommend rinsing your bar ends after repeated uses to maintain easy function of your adjustable bar system.

Tip: Each time you run out your lines to connect your kite we recommend that you check that your adjustable bar ends are functioning properly along with your quick release before launching. If you notice that your bar ends are difficult to remove, be sure to rinse and reapply lubrication to ensure full functionality. Failure to maintain the adjustable bar ends may lead to corrosion and seizing of the moving parts.

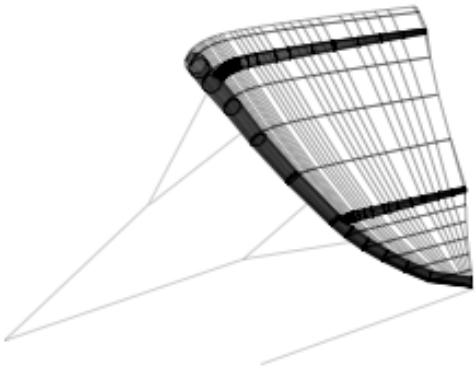


4.4 Line Management

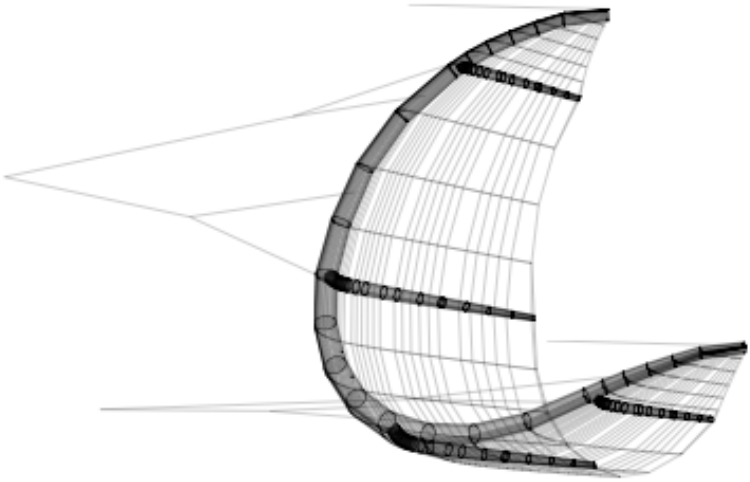
Unwind your lines from your bar and lay them out parallel to each other. Starting at the bar, walk your lines out making sure to remove all twists.
You will notice that the line ends are colored Red/White/Grey. Red and Grey lines are your steering or BACK lines and should always be connected to the back, or trailing edge connection points on their corresponding sides of the kite. White lines with Blue pigtails are the FRONT lines and should always be connected to their corresponding sides of the leading edge of the kite.
To minimize line stretch , attach your lines evenly to a solid safe object . With your de-power loop all the way against the bar and sheeting system all the way out (powered up position), grab your bar and pull back with a good amount of pressure. As you apply and release pressure, all lines should rise and lower evenly and the bar should be perpendicular to the center lines. If this is not correct you will need to make small adjustments to all lines to compensate for any difference. It is important to weight each line individually and then do adjustments. As you pull, each line will begin to lock the fibers into place. This will minimize any adjustments you will need to do later.
The goal for all the adjustments is to end up with all lines with the de-power loop and sheeting system positioned all the way out (powered up position). The first few times that you use your bar system, the lines and knots will settle in and change length slightly. It is important to always check your lines after the first few sessions, especially if your kite feels as if it is pulling to one side. Now that you have your bar set up and ready, take your time and wrap your lines back onto the bar. You will learn that taking your time wrapping your lines will result in fewer twists in your lines when you lay them out the next time. Once you get to the end of the lines wrap the remainder around the end of the bar, put the elastic bungee over the loose ends to secure them to the bar end..

5.1 Airush V Bridle System

The AIRUSH V Bridle system used on all Airush Kites (except RAZOR) utilizes a series of pulleys to achieve complete 5 line depower on a 4-line kite. It also provides a steady progressive feel throughout the range of depower and the ability to have some steering control while depowered.



When the bar is released, the AIRUSH V bridle system allows the front line tow points to rotate forward, allowing the kite pivot off the front lines into a flat powerless position when the bar is released in an emergency situation. This is also extremely useful in self landing situations and allows for the security of controlled self-landings even in high wind situations.

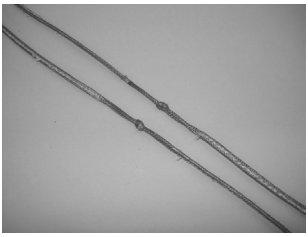


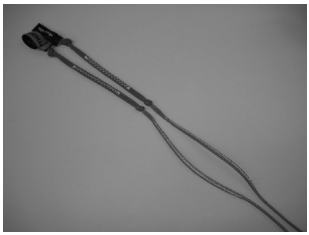
5.2 Multiple Line Length System

Along the flying lines, the connection between sections are spliced together and stitched to keep a low profile and a strong connection.

Pigtail - line connection:

- The same connection is used to connect the pigtail to the flying lines
- By alternating the different length sections, the bar can be set up with line lengths of 24M, 21M, 18M, 15M and 10M configurations.





5.3 Proper Inflation

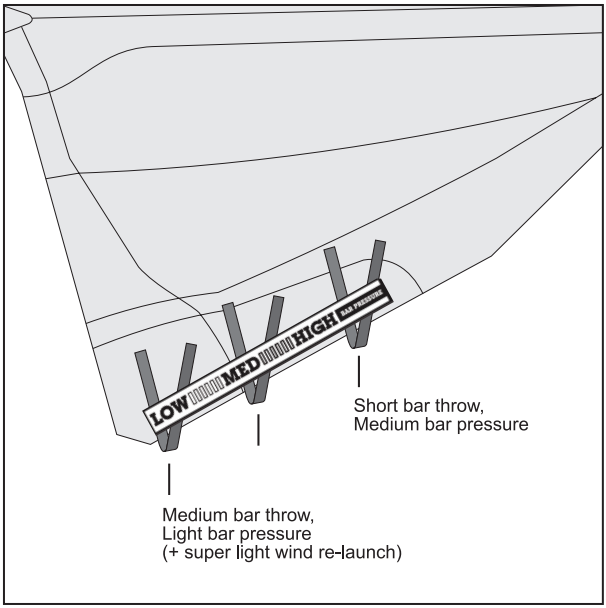
The AIRUSH V bridle system requires your kite to be properly inflated. Always pump your kite until firm or around 6 PSI. Higher wind speeds and heavier riders may require higher inflation pressure. Under-inflation can cause canopy collapse and poor performance. If you find that your kite is folding along the leading edge, it is likely under-inflated.

Note : The accuracy of the pump gauges can vary over time.

The new Airush valve-pump connection allows a better airflow. With the high inflation pressures required with the new kites we recommend to always use the female adaptor on the pump to inflate your kite. Using the male pump adaptor can cause the top section of the valve to stretch and may result in the valve cap to not sit securely in the valve and it may become loose and leak air. Using the fitting pictured below does not stretch the valve.

5.4 Adjustable Bar Pressure/Throw and Turning Speed

The different back line attachments allow the rider to choose the bar throw and the bar pressure that one prefers. Connecting to the attachment point closest to the wingtip will help with relaunch in light wind situations.



6/KITE CARE AND MAINTENANCE

6.1 General Advice

To prolong the life of your kite and equipment you should follow these very important instructions.

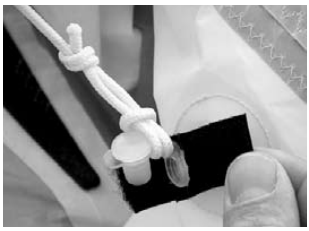
- Never store your kite for any extended period of time in bag if at all wet or moist. Doing so can cause colors to fade and bleed into each other. If the canopy is wet allow the kite to dry completely out of direct sunlight.
- After use in saltwater, it is always good to wash all gear thoroughly using fresh water and allowed to dry out of direct sunlight. Never use high-pressure water against the kite canopy.
- Be sure to either cover or store your kite out of the sun light while not in use.
- Do not leave your kite sitting, inflated, main strut down facing into the wind. The wind can cause the trailing edge to flap loosely. If allowed to flap in this manner, the trailing edge material will begin to break down and cause unwanted material stretch and deterioration along the trailing edge, which will drastically decrease the kites' performance and lifespan.
- Periodically throughout the life of your kite, check all connection points and canopy for damage and make sure to repair small tears as needed. Small tears can become large tears with one bad crash.

6.2 Bladder Repair

For any major cuts or rips, make sure to consult your local Airush dealer or kite repair center for assistance. Before attempting any bladder repairs make sure your kite is clean and dry. Avoid repairing your kite on the beach, on dirty or windy areas. A grassy clean place out of the wind area is preferred. Make sure to deflate all bladders when doing repairs. You will need one of your flying lines, or an extra piece of line before you start removing a bladder from the kite.

Lay the kite out flat, struts facing up.

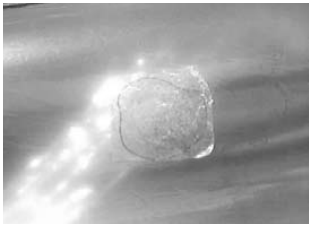
1 / Detach the Velcro closure at the base of the damaged strut. This will open up the strut casing and allow you to access the bladder.



2 / Next tie on an end of the extra line to the air valve of the strut being removed.

Gently push the valve down through its hole in the strut casing. Go to the end of the strut and slowly pull the bladder out as the line you tied to the valve feeds into the valve hole. Having the line through the strut sleeve will allow you to easily replace the bladder once it is repaired. Inflate the bladder using your pump.Most of the time you will usually hear the leak. But you can also submerge the tube in water to locate the hole.

3 / Once you have located the leak, dry the area and mark with a permanent marker.



4 / Select a patch from the self-adhesive pack. Next, lightly sand the area where the leak is. Remove the paper backing from the patch and apply to the leak-apply pressure to ensure good adhesion Again inflate the bladder and check that the leak has been taken care of.

Deflate once again and tie the line back onto the valve. Slowly pull the bladder back into the casing from the end making sure the bladder aligns itself inside the casing. Once the bladder is replaced gently work the valve and Velcro back into its hole. Make sure to close the Velcro at the end and then slowly inflate the bladder. As the strut begins to take shape make sure the bladder fills the inside casing and that there are no voids

6.3 Leading Edge Strut Repair and Kite Canopy Repair

1 / Repairing the main leading edge strut is done exactly the same way, except you will need to connect a line from the bladder tips before removing as this will allow you to pull the bladder back into the kite after repair.

2 / Pull the bladder through the zippered opening located on the inside of the main strut off to the side of the valve.

3 / It is very important to fold the bladder flat off to one side of the opening when reinserting it so that you do not get any twists while it is fed into the opening on the leading edge of the kite.

Apply a baby powder to the bladder before reinserting. It will allow it to easily align and seat itself when pumping it back up.

Kite Canopy Repair

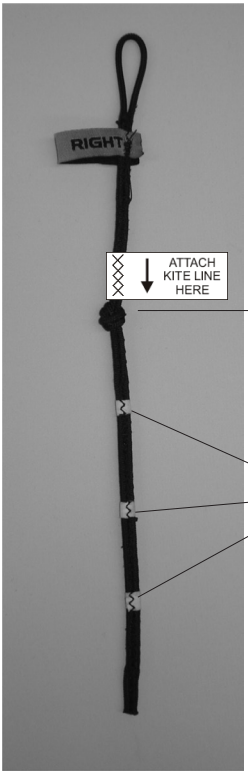
Any major tears or repairs to the sail area, we recommend you consult your local Airush Dealer or local kite repair loft for assistance.

- Make sure to thoroughly clean and dry the surface being repaired.
- Lay the kite out flat on a smooth table or surface.
- Cut two matching pieces of material, one for each side of the sail that covers the tear at least one inch all the way around.
- Carefully place one piece onto one side, making sure that both sides of the tear are lined up perfectly along the rip.
- Cover the other side matching the piece placed on the first side.

7.1 Stability Pigtails

Airush kites are supplied with a back pigtail that allows you to fine tune the back line tension to increase the stability and reduce the back stall tendencies of the kites.

The positions on the pigtails are shown below:



Standard AIRUSH setting for majority of riders

3 white marks where a knot can be tied:
By moving the knot down, the back stall tendencies are reduced
(Note: steering may be reduced slightly with these settings)

7.2 Stopper Ball Use

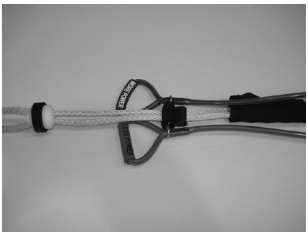
The sliding stopper can be used to rest the bar against it to take some of the bar pressure off of your arms and to stop the bar from sliding all the way up to the depower strap.

If depower is needed, the stopper can be pushed up the de-power line by forcing the bar against it aggressively.
(Note: Immediate depower by letting go of the bar will be reduced when the sliding stopper is pulled down.)

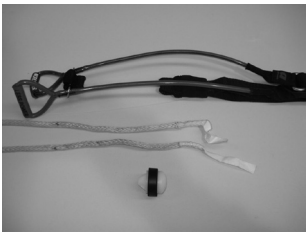
7.3 Remove the Sliding Stopper Ball

The stopper ball is great for resting the bar against and for spinning the bar, but slightly reduces the kites de-power safety.

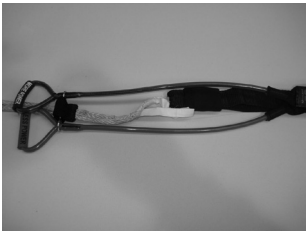
If you are a beginner, we recommend you remove this stopper before you ride.



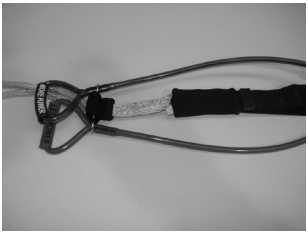
1 / Un-tie the bowline knots between the depower ropes and the strap.



2 / Then un-thread the line from the strap, from the depower handle guide and from the stopper ball.



3 / Then thread the line back through the depower handle guide.



4 / Thread the line back through strap and re-tie the bowline knots.

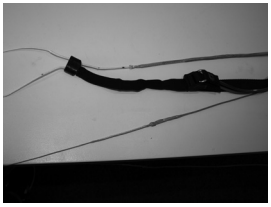
7. 4 Multi-Zone Tuning Options

The Multi-zone Tuning options offer you a variety of ways to fine-tune your control bar to suit your specific needs for the conditions and size of kite.

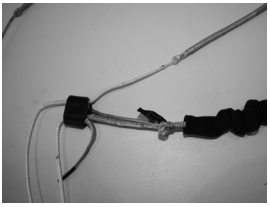
- Under the Floats – Back Line Tuning (A1- A2)
- Above the Sheeting Strap – Front Line Tuning (B1-B2)
- Bar End Adjustment – Bar Length (C1-C2-C3-C4)

A1 / Under the float.

A2 / Pull down the float to access tuning knots for the back lines.



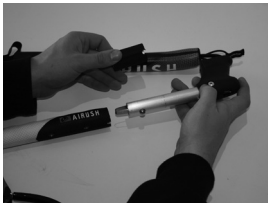
B1 / Above the sheeting strap.



B2 / Pull down the cover to access tuning knots for the front lines.

C1 / Bar ends : push the pin in to remove the bar end.

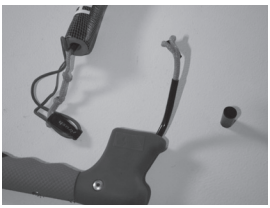
C2 / Add or remove the extension making sure to align the locator pin with the recess on the extension cover.



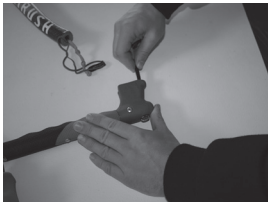
C3 / Put the extension back in the bar.

C4 / Make sure that the pin is insert welland that the extension is seated and locked into place.

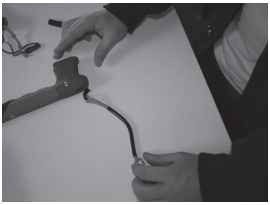
D1 / Lift float from bottom



D2 / Undo larks head and remove float



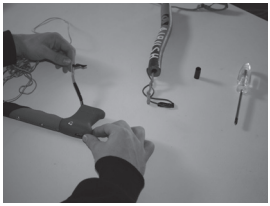
D3 / Push attachment line and PU tubing through bar end hole #1



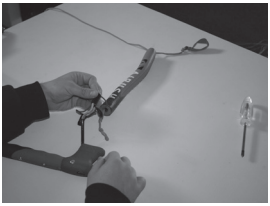
D4 / Fully remove line and PU tubing

D5 / Thread kite line through hole #2 and tie to attachment line

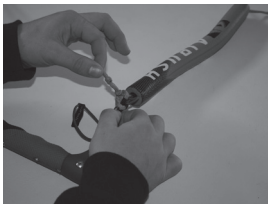
D6 / Pull kite line through hole #2



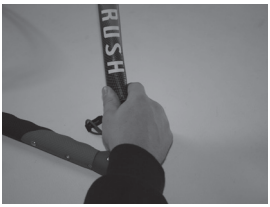
D7 / Ensure that metal ring fits inside bar end and remove kite line



D8 / Slide PU tubing over attachment line



D9 / Connect larks head to knot



D10 / Push float down for tight fit.

8/WARRANTY POLICY

Airush Warranty

Airush Warrantees this product to be free of major manufacturing defects in materials or workmanship to the original purchaser for a period of 1 year from the date of purchase. This excludes any wear components that have been subjected to normal wear and tear.

The following are not covered by this warranty:

- Damage due to crashing on land or water
- Damage due to self launch or self landing your kite
- Damage due to improper care or storage

All warranty claims must be submitted through the retailer where the product was purchased. The retailer will contact the distributor in the respective country and provide a decision in a timely manner.

No warranty claims are to be lodged through Airush International.

The warranty is subject to the following conditions:

1. The warranty is valid ONLY when the warranty item has been purchased from an authorized dealer or distributor.
2. The warranty is valid only when the product is used for normal recreational activities.
3. The warranty is valid only when the proper Airush warranty procedure has been followed as defined in the Airush Warranty Protocol.
4. Airush will make the warranty determination only after inspection and/or analysis of photos of the product clearly showing the defect.
5. If a product is deemed to be defective by Airush, the warranty covers the repair or replacement of the defective product only. Airush is not responsible for any cost, losses, or damages incurred as a result of loss of use of the product.
6. The warranty does not cover damage caused by misuse, abuse, neglect of normal wear and tear including but not limited to, punctures, rigging with other than Airush components, damage due to excessive sun or wind exposure or seam failure due to over-inflation, damage caused by improper handling and storage, damages caused by crashing in waves or shore break and damage caused by anything other than damage caused by anything other than defects in materials and workmanship.
7. The warranty is void if any unauthorized repair, change or modification, has been made to any part of the equipment.
8. The warranty for any repair or replacement equipment is good from only the date of the original purchase.
9. The original purchase receipt must accompany all warranty claims. The name of the retailer and date of purchase must be clear and legible.
10. There are no warranties that extend beyond what has been specified here.

Airush Warranty Protocol

For all warranty claims you must provide the following at the request of the retailer where the product was purchased:

1. Completed warranty form that includes a detailed explanation of the damage/fault and a full description of how it happened.
2. Proof of purchase.
3. Pictures showing the detail of the fault.
4. Pictures showing the serial number of the board or kite.

SOUTH AFRICA AUSTRALIA USA

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